DMWG Resource Library

- Data Management Resource Library
  - Organizations
  - Best Practices
  - Data Management Plans
  - Data Preservation
  - General Articles, Publications, and Projects
    - Data Management
    - Data Preservation
    - Digital Curation (sensu lato)
  - Policies and Guidelines
  - Standards and Protocols
  - Data Policy Links
  - Potpourri
    - Related USGS Communities and Activities
    - This and That

Data Management Resource Library

Links to a collection of team-contributed model data management plans, best practices documents, background articles, and other materials from external sources relating to data manangement and preservation.

Check out the Mendeley CDI-Data Management Bibliography

Organizations

- DAMA International (Data Management International)

Best Practices

Handbooks, best practices, checklists, etc.

- ICPSR Guidelines for Effective Data Management Plans
  - Guide to Social Science Data Preparation and Archiving (PDF download)

Data Management Plans

Model document management plans.

- What should be in a Data Management Plan? (Univ. of Oxford)
- Preparing data management plans for NSF grant applications (video) | NSF data management planning guide (PDF download) (UC Berkeley Science Libraries) |

Data Preservation

- Future and Current Directions in Data Preservation - Presentation at 2011 GSA by John Faundeen

General Articles, Publications, and Projects

Background articles, whitepapers, and conceptual models relating to data management and preservation.

Data Management

- A Vocabulary for Scientific Information and Knowledge Management (Govoni & Gunther, 2006) (PDF download)
- Guidance for Implementation of the Integrated Ocean Observing System (IOOS®) Data Management and Communications (DMAC)

Subsystem (NOAA IOOS® Program Office White Paper (v1.0), March 12, 2010)
- Research Data Management (Univ. of Oxford)
- Rethinking scientific data management (ISGTW, Nov. 2010)
- Data Management Toolkit (USGS Open-File Report 2009-1170)
- The Future of Geospatial Data Management: A Natural Resource Perspective (GeoWorld, vol. 23, no. 7, p. 20-23, Aug. 2010)

Data Preservation

- Save the Whales? Save the Rainforest? Save the Data! (Conservation Biology, Feb. 2010)

Digital Curation (*sensu lato*)

- Data Conservancy(NSF DataNet project)
  - Publications repository

Policies and Guidelines

Formal policy and guidance documents bearing on data management, preservation, and release.

- **U.S. Geological Survey**(Note that these documents are currently undergoing reclassification and revision; drafts are embargoed pending final review and approval.)
  - Release of Computer Databases and Computer Programs (USGS SM 1100.8)
  - Safeguarding Unpublished U.S. Geological Survey Data and Information (Instructional Memorandum GIO-10-001)

- **National Science Foundation (NSF)**
  - Dissemination and sharing of research results
    - Data sharing policy
    - Data management plan requirements
    - Division of Earth Sciences (GEO-EAR) guidelines (PDF download)

- **Natural Environment Research Council (UK) (NERC)**
  - NERC Data Policy (overview)
  - NERC Data Policy Statement (effective Jan. 2011)

Standards and Protocols

Related standards and protocols

- Glossary of Metadata Standards (MyUSGS) | online (PDF download) (Jenn Riley, Indiana University Libraries, 2010)

Data Policy Links

- Survey Manual
- USGS Fundamental Science Practices, Circular 1367
- Office of Science Quality and Integrity Intranet: RGE/EDGE Processes
  - RDSR Training Materials: PowerPoint: Developing an Effective Research and Development Scientist Record (RDSR)
  - Handbooks, guides, checklists, and standards
  - RDSR Form (template and sample)
- Fundamental Science Practices
- USGS Publishing Info

Potpourri

Related USGS Communities and Activities

- DMP Framework, Part II, Data Model Standards
- https://nccwsc.usgs.gov/content/data-policies-and-guidance
- National Geological and Geophysical Data Preservation Program (NGGDPP)
  - NGGDPP wiki home
  - Best Practices in Data Preservation Project

This and That

- Report on a "data management boot camp" submitted by Sally Holl (sholl@usgs.gov)

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Save_the_data.pdf | 9 20, 2011 by Arcamonte, Karen
DMAC_Implementation_2010.pdf | 9 20, 2011 by Arcamonte, Karen
Glossary_Metadata_Standards.pdf | 9 20, 2011 by Arcamonte, Karen
IMBER-Data-Management-Cookbook.pdf | 9 20, 2011 by Arcamonte, Karen
Digital-Preservation-EN80.pdf | 9 20, 2011 by Arcamonte, Karen
Researchers Launch Hunt for Endangered data.pdf | 9 27, 2011 by Arcamonte, Karen
Ocean Coastal Data Management.pdf | 9 27, 2011 by Arcamonte, Karen
Data Management Plan Framework CDI 2011-01-12.pdf | 9 27, 2011 by Arcamonte, Karen
A Data Management Plan Framework For USGS - 2011-01-13.pdf | 9 27, 2011 by Arcamonte, Karen
GSA 2011_Data_preservation_Faundeen.ppt | 12 14, 2011 by Henkel, Heather S.

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This is a useful start, but we clearly need a set of defined terms or categories for parking these documents and links before we go too far with listing them. Some of these 'data management resources' are authoritative, others not-so-much. So we need a clean structure along with some tagging conventions (you tell me!). And whatever terms are developed here should also be used for our group Mendeley bibliography when that's running. -=S

--stessler@usgs.gov, 13-Dec-2010

@stessler: Quite so. The *ad hoc* categories I created – while absolutely, positively, and without a doubt the very best ever (in my oh-so-humble opinion) – may not 'resonate' with other folks. Oh, and yes, the informal articles and 'thought pieces' should probably be better distinguished from gray literature, formal studies and other citable documents, etc. I hope time is spent on identifying and adopting or as a last resort creating a reasonably stable and useful classification scheme *before* Mendeley is unleashed. Is there a Librarian in the house?

– dgovoni@usgs.gov 08-Mar-2011